



Canine tumor necrosis factor soluble receptor I (TNFSR-I) ELISA kit-Quantitative sandwich

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| Cat. No.: | 0126WXX-1933 |
| Assay Type: | Quantitative sandwich ELISA |
| Target Species: | Canine |
| Assay Target: | TNFSR-I |
| Size: | 48T; 96T |

This product is for research use only and is not intended for diagnostic use.

Product Overview

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|------------------------|---|
| Description | Canine tumor necrosis factor soluble receptor I (TNFSR-I) ELISA kit-Quantitative sandwich is an ELISA-based <i>in vitro</i> research tool designed specifically for the quantitative detection of TNFSR-I in canine samples with a range of 62.5 -2000 pg/mL and a minimum detectable dose (sensitivity) of 10 pg/mL. The kit is highly sensitive and easy to use. |
| Assay Principle | The ELISA analytical biochemical technique is based on TNFSR-I antibody-TNFSR-I antigen interactions (immunosorbency) and an HRP colorimetric detection system to detect TNFSR-I antigen targets in samples. |
| Background | TNFSR-I is the free form released into the bloodstream following proteolytic cleavage of the membrane-bound TNF-RI receptor. TNF-RI is generally recognized as the primary receptor mediating tumor necrosis factor (TNF- α) signaling, playing a crucial role particularly in apoptosis, cytotoxicity, and inflammatory signaling pathways. TNFSR-I functions as a decoy receptor in the circulation, binding TNF- α to neutralize its activity and thereby modulate systemic inflammatory burden. It is associated with chronic inflammation, insulin resistance, and obesity. |
| Synonyms | sTNF-RI; TNFRSF1A |
| Formula Weight | 48,291 Da |



Applications

Canine tumor necrosis factor soluble receptor I (TNFSR-I) ELISA kit-Quantitative sandwich is used to quantify TNFSR-I in canine samples, providing data to support research in a wide range of areas, including signal transduction, inflammation, obesity, and others.

Research Area

Signal Transduction; Inflammation; Obesity

Specification

Sample Type

Canine samples

Detection Range

62.5-2000 pg/mL

Sensitivity

10 pg/mL

Precision (Intra-assay)

CV<15%

Precision (Inter-assay)

CV<15%

Cross-reactivity

No significant cross-reactivity or interference was observed.

Storage

Store at 2-8°C.